
4. Descendants

Program Name: Descendants.java

Input File: descendants.dat

You are working for a system administrator who finds that none of his tools are quite what he wants. He has a database with processes that have a name, process id, and a parent process id. There is a root process with an id of 1 and a parent id of 0. All processes will be descendants of this root process. You are going to print out a list of these processes in a nice format. You will first print root and then follow this format. Processes will have their children listed underneath them in alphabetical order. Processes will have a number of dashes before them equal to how far descended from the root they are.

Input

The first line will tell you how many processes will follow. Each process will be on its own line in the format of – [Name] [ID] [Parent ID].

Output

Output will consist of process names in the format specified above. Look at the example for a clear idea.

Example Input File

```
6
chrome 23 34
ps 2 1
sublime 4 34
awesome 34 1
eclipse 56 34
gdb 91 56
```

Example Output to Screen

```
root
-awesome
--chrome
--eclipse
---gdb
--sublime
-ps
```